

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2005/006871

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B33/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 243 145 A (RYFORD LIMITED) 23 October 1991 (1991-10-23)	1,2
Y	page 5, paragraph 3; claim 1	3-16
Y	US 6 047 821 A (HASHIMOTO ET AL) 11 April 2000 (2000-04-11) column 2, line 40 - column 4, line 29	3-6,8, 11-15
Y	US 6 227 363 B1 (LU SUNG-TIEN) 8 May 2001 (2001-05-08) column 2	9,10
Y	US 2003/024832 A1 (KWOK-DIN LAU) 6 February 2003 (2003-02-06) column 2, paragraph 43; figure 2	7,16
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*A\* document member of the same patent family

Date of the actual completion of the international search

2 August 2005

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12/08/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 93/12993 A (YOSHIHARA, HIROSHI) 8 July 1993 (1993-07-08) abstract -----	7,16
A	US 5 845 771 A (FU ET AL) 8 December 1998 (1998-12-08) column 3, line 32 - line 45 -----	10,11
A	US 2002/134696 A1 (MARSILIO RONALD M ET AL) 26 September 2002 (2002-09-26) page 2, paragraph 31 -----	7,16

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/006871

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2243145	A	23-10-1991	NONE	
US 6047821	A	11-04-2000	JP 3137934 B2 JP 11115982 A	26-02-2001 27-04-1999
US 6227363	B1	08-05-2001	DE 20004218 U1	27-07-2000
US 2003024832	A1	06-02-2003	WO 03012791 A1	13-02-2003
WO 9312993	A	08-07-1993	JP 5054297 U WO 9312993 A1	20-07-1993 08-07-1993
US 5845771	A	08-12-1998	NONE	
US 2002134696	A1	26-09-2002	US 2002170838 A1 EP 1361989 A1 WO 02066342 A1	21-11-2002 19-11-2003 29-08-2002